

## 281, 288, 871, and 878 Series Announcement

*Please note, this announcement is applicable to our 280, 287, 870, and 877 Series PTOs.*

As part of our commitment to continuously improve our Power Take-Off designs, Parker Chelsea is taking proactive measures to upgrade our popular 280 and 870 Series PowerShift PTOs, along with their Constant Mesh counterparts, the 287 and 877 Series. As the vocational market adapts to meet escalating heavy-duty demands, vibration found in large diesel engines is becoming more severe. These vibrations directly affect the PTO and pump assembly. Anticipating this trend to persist, Chelsea dedicated over a year to data collection and testing under real-world working conditions, and identified three enhancements to ensure our PTOs can withstand the demands of the future. Due to the extent of these enhancements, the changes are not backwards compatible.

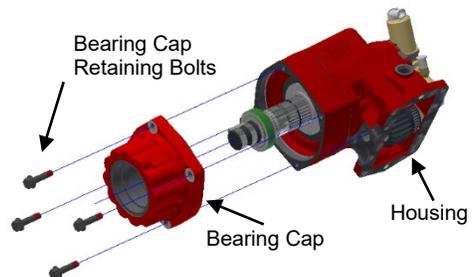
As a result, we have developed a timeline to obsolete the existing series and launch the new PTO models: the 281, 288, 871 and 878 Series. They will be a direct, one-to-one series conversion as shown below. This decision underlines our dedication to providing the highest quality, most durable, and innovative PTO solutions in the market.

	Ductile Iron Bearing Cap	O-Ring Seal	Thicker Steel Discs in Clutch Pack
<b>280</b> → <b>281 SERIES</b>	X	X	X
<b>287</b> → <b>288 SERIES</b>	X	X	
<b>870</b> → <b>871 SERIES</b>	X	X	
<b>877</b> → <b>878 SERIES</b>	X	X	

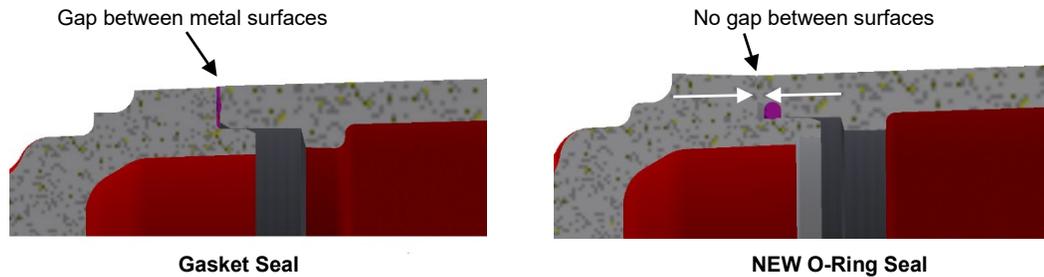
**OVERVIEW OF CHANGES & BENEFITS:** These three major enhancements ensure our PTOs can withstand the demands of the future and continue to deliver the performance and reliability you expect from Chelsea.

- Ductile Iron Bearing Cap** – Bearing cap will now be made of ductile iron, which is 117% stronger than the gray iron of the preceding series. The stronger material provides better support for the PTO/pump assembly.

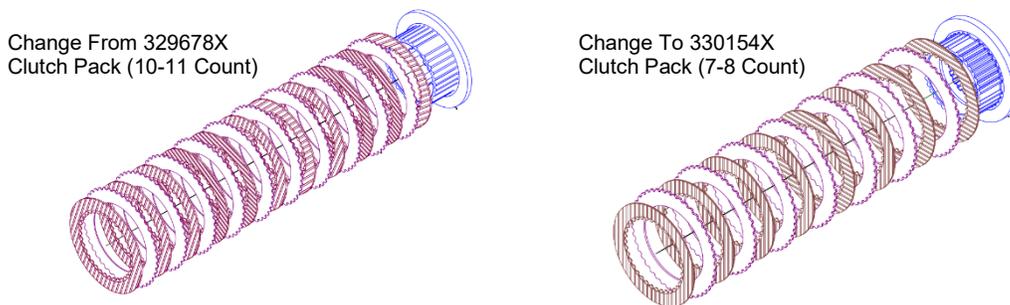
*Affected Series: 281, 288, 871, and 878.*



2. **O-ring Seal** – Sealing configuration between the housing and bearing cap will now be an O-ring, rather than a gasket. The metal-to-metal contact between mating surfaces improves clamping force, thus reducing the effects of transmitted vibration. *Affected Series: 281, 288, 871, and 878.*



3. **Thicker Steel in Clutch Pack** – The thickness of the steel discs in the clutch packs is increasing by 80%, and the number of discs will be optimized to resist premature tooth wear without affecting torque rating. *Affected Series: 281 only.*



**TIMELINE: January 15, 2024, will be the order entry cutover date.** On this date, we will begin taking orders for the new 281, 288, 871, and 878 Series, and will no longer be accepting orders for the 280, 287, 870, or 877 Series.

**If a stock order placed before the cutover date of January 15 contains one of the new series, the order cannot automatically move into production. For this reason, we recommend you do not include the new series in stock orders until after the cutover date.**

If an order is placed for one of the old series after the cutover date of January 15, the system will automatically convert the order to the corresponding new product number. We estimate that new series orders will begin shipping in April/May.

**PART NUMBER CONVERSIONS:** Below are part number conversions.

<b>BEARING CAPS</b>					
280/ 287	870/ 877	870XL/ 877XL	CURRENT PART NO.	DESCRIPTION	NEW PART NO. w/ 28-P-329 0- RING
X			21-P-881	BEARING CAP - XD, XV	21-P-932
X	X		21-P-882	BEARING CAP - NOT WET SPLINE	21-P-933
X	X		21-P-883	BEARING CAP - WET SPLINE	21-P-934
		X	21-P-903	BEARING CAP - 870L	21-P-935
	X		21-P-904	BEARING CAP - 877-06	21-P-946

<b>HOUSINGS</b>					
280/ 287	870/ 877	870XL/ 877XL	CURRENT PART NO.	DESCRIPTION	NEW PART NO. w/ 28-P-329 0- RING
X			1-P-763	HOUSING - 3 ARRANGEMENT	1-P-813
X			1-P-765	HOUSING - 5 ARRANGEMENT	1-P-814
X			1-P-768	HOUSING - 8 ARRANGEMENT	1-P-815
	X	X	1-P-762	HOUSING - 5 ARRANGEMENT	1-P-816
	X	X	1-P-764	HOUSING - 3 ARRANGEMENT	1-P-817

<b>CLUTCHES</b>					
280	870	870XL	CURRENT PART NO.	DESCRIPTION	NEW PART NO.
X			329678X 10-11 PACK (329724-*X)	CLUTCH PACK ASSY (SHAFT / CLUTCH ASSY)	330154X 7-8 PACK (330155-*X)
	X	X	329678X 10-11 PACK (329724-*X)	CLUTCH PACK ASSY (SHAFT / CLUTCH ASSY)	NO CHANGE

**PRICING:** Chelsea has already announced a list price adjustment across our product line effective January 15, 2024. Pricing will align with other price adjustments for 2024.

Chelsea takes pride in our commitment to quality and performance. Now with further improved durability and value to our customers, our PTOs set an even higher benchmark in the industry. The new 281, 288, 871, and 878 Series PTOs are evidence that Parker Chelsea is constantly investing in developing the world's greatest PTO solutions.

If you have questions about this bulletin or require other technical assistance, please contact us at:

**US Customer Service**

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Thank you,



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